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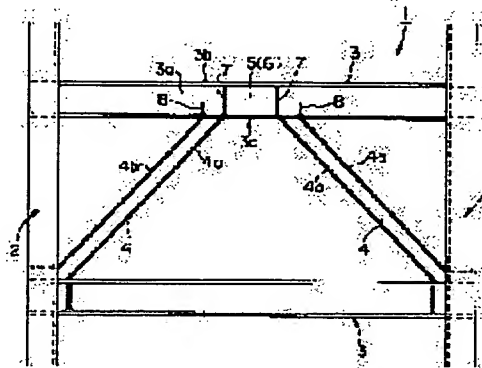
(21)Application number : 08-288843 (71)Applicant : SHIMIZU CORP
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(54) VIBRATION-MITIGATING STRUCTURAL MEMBER

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to obtain a high earthquake resistance and to obtain quick recovery after the occurrence of an earthquake without sacrificing space and much labor and time during construction process.

SOLUTION: K-type braces 4, 4 are provided between columns 2, 2 and beams 3, 3 constituting a structural member 1, a damper portion 5 made of extremely soft steel is formed between upper end portions of the braces 4, 4 where the shearing force becomes the maximum shearing force occurs at an upper beam 3, and this is supposed to have a shear yielding when a shearing force higher than an allowable limit acts to the damper portion 5 by an external force in a horizontal direction such as earthquake. Also, it is possible to constitute the damper portion 5 by a viscoelastic body. Moreover, the damper portion 5 can be made freely detachable to the beam 3.



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